



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 986 025 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
09.07.2003 Bulletin 2003/28

(51) Int Cl.7: **G06T 7/00**

(43) Date of publication A2:
15.03.2000 Bulletin 2000/11

(21) Application number: **99202959.5**

(22) Date of filing: **10.09.1999**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Roy, allen.D**
Massachusetts 01803 (US)

(74) Representative:
Van Ostaeyen, Marc Albert Jozef et al
Agfa-Gevaert N.V.,
Septestraat 27
2640 Mortsel (BE)

(30) Priority: **06.10.1998 US 167027**
11.09.1998 US 99881 P

(71) Applicant: **Agfa Corporation**
Ridgefield Park, NJ 07660-2199 (US)

(54) **Imaging parameter detection**

(57) A system and method for detecting imaging parameters includes forming a first image generated with pseudorandom noise and a second image generated with the same pseudorandom noise that serve as an imaging parameter sensor when the first and second images are superimposed. The sensor is useful for visually detecting such imaging parameters such as geometric errors. In one embodiment, the first and second patterns

are generated with pseudorandom noise by modulating a repetitive pattern with pseudorandom noise. In another embodiment, the first and second patterns are generated with pseudorandom noise by forming a pseudorandom image and the reverse of the image, and phase shifting one or both of the images.

EP 0 986 025 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 20 2959

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 5 583 950 A (PROKOSKI FRANCINE J) 10 December 1996 (1996-12-10)	1-12, 14-17, 25,26, 28-32	G06T7/00
Y	* the whole document *	13,27	
Y	EP 0 856 402 A (BAYER AG) 5 August 1998 (1998-08-05) * column 21, line 30 - line 41 * * column 24, line 57 - column 25, line 20 *	13,27	
A	US 5 101 296 A (BELL BILL) 31 March 1992 (1992-03-31) * abstract *	1,25	
A	PATENT ABSTRACTS OF JAPAN vol. 009, no. 279 (M-427), 7 November 1985 (1985-11-07) & JP 60 122153 A (TOPPAN INSATSU KK), 29 June 1985 (1985-06-29) * abstract *	1,25	
A	US 4 532 596 A (PUGSLEY PETER C) 30 July 1985 (1985-07-30) * abstract *	1,25	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20 May 2003	Examiner Hazel, J
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 20 2959

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-05-2003

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5583950	A	10-12-1996	US 5982932 A	09-11-1999
			CA 2150676 A1	09-06-1994
			EP 0673533 A1	27-09-1995
			JP 8506194 T	02-07-1996
			WO 9412949 A1	09-06-1994

EP 0856402	A	05-08-1998	US 5857784 A	12-01-1999
			EP 0856402 A1	05-08-1998
			JP 10221019 A	21-08-1998
			US 6022154 A	08-02-2000
			US 6164847 A	26-12-2000

US 5101296	A	31-03-1992	NONE	

JP 60122153	A	29-06-1985	NONE	

US 4532596	A	30-07-1985	DE 3265646 D1	26-09-1985
			EP 0079153 A1	18-05-1983
			JP 58160152 A	22-09-1983

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82